JOJ 3 MAY 2 5 RECD 191038

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800 Rev. 1/26/2006 This is an experimental format Please give suggestions or a second of the sec		
recase give suggestions of comments to Jeff Harrison, JEF-4B68, 22511.		
Date 5940 Serial # 1064(900) Priority Application Date 3/6/07		
Your Name VIII Examiner #		
AU 2822 Phone 202-1838 Room 543		
In what format would you like your results? Paper is the default. PAPER DISK EMAIL		
is submitting more than one search request form, please prioritize the searches in order of need		
Where have you searched so far on this case? Circle: USPT DWPI EPO Abs JPO Abs IBM TDB		
What relevant art have you found so far? Please attach citations or Information Disclosure Statements.		
What types of references would you like? Please checkmark:		
Primary Refs Nonpatent Literature Teaching Best		
Secondary Refs Foreign Patents Other		
Is this a "Fast & Focused Search" request? (Circle One) A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm		
What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.		
registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.		
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SYSTEM:OS - DIALOG OneSearch
 File 23:CSA Technology Research Database 1963-2006/May
 File
        2:INSPEC 1898-2006/May W3
 File
        6:NTIS 1964-2006/May W3
 File
        8:Ei Compendex(R) 1970-2006/May W3
       14: Mechanical and Transport Engineer Abstract 1966-2006/May
 File
       25:Weldasearch 19662006/May
 File
       31:World Surface Coatings Abs 1976-2006/Jun
       33:Aluminium Industry Abstracts 1966-2006/May
 File
 File
       34:SciSearch(R) Cited Ref Sci 1990-2006/May W3
       35:Dissertation Abs Online 1861-2006/May
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 File
       36:MetalBase 1965-20060529
 File
       46:Corrosion Abstracts 1966-2006/May
       56:Computer and Information Systems Abstracts 1966-2006/May
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       57: Electronics & Communications Abstracts 1966-2006/May
 File 60:ANTE: Abstracts in New Tech & Engineer 1966-2006/May
       61:Civil Engineering Abstracts. 1966-2006/May
 File 63: Transport Res (TRIS) 1970-2006/Apr
 File 64:Environmental Engineering Abstracts 1966-2006/May
 File 65: Inside Conferences 1993-2006/May 30
 File 68:Solid State & Superconductivity Abstracts 1966-2006/May
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 File 134: Earthquake Engineering Abstracts 1966-2006/May
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 File 240:PAPERCHEM 1967-2006/May W4
 File 248:PIRA 1975-2006/Apr W3
 File 293:Engineered Materials Abstracts 1966-2006/May
 File 315: ChemEng & Biotec Abs 1970-2006/May
 File 323:RAPRA Rubber & Plastics 1972-2006/Apr
 File 335:Ceramic Abstracts/World Ceramics Abstracts 1966-2006/May
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
        Items
Set
                Description
S1
         322
                (6 OR SIX) (W) SIDES
                (COMPLET????? OR FULL???? OR 100 OR ENTIRE???? OR ALL OR ALLOVER? OR OVERALL? OR
s2
       251362
TOTAL ??) (2N) (SURROUND ???? OR AROUND OR ENCAPSUL ????? OR SEAL ???? OR PROTECT ???? OR COVER ???? OR ISOLAT ???? OR
INSULA????)
S3
                1AND2
            2
                RD S3
                      (unique items)
S4
         9160
                S1:S2 AND SEMICONDUCT????????
S5
S6
         5342
                S1:S2 AND PACKAG??????
S7
         1746
                S1:S2 AND INTERCONNECT??????
                S1:S2 AND (BUMPS OR BALLS OR PILLARS OR POSTS OR PADS OR CONTACTS OR TERMINALS)
S8
         3114
                S1:S2 AND THINN???????
S9
         892
                S1:S2 AND SURFACES
S10
        11743
S11
         1902
                S1:S2 AND SIDES
                S1:S2 AND TOP
         4653
S12
S13
         2668
                S1:S2 AND BOTTOM
S14
          175
                S1:S2 AND TOPS
                S1:S2 AND BOTTOMS
S15
          164
S16
           37
                S1:S2 AND BGA? ?
                S1:S2 AND BALLGRID?
           .0
S17
S18
           50
                S1:S2 AND BALL()GRID????
                S1:S2 AND ARRAY?????
         5087
S19
                S1:S2 AND (DIE OR DIES OR DICE OR DICES OR DICED OR DICING?? OR SINGLAT?????)
S20
         2678
S21
         2951
                S1:S2 AND (CSP? ? OR CHIP?????? OR MICROCHIP? OR CLP? ?)
                S1:S2 AND (WAFER?????? OR WLP? ? OR WSP? ?)
S22
         1923
S23
         4363
                S1:S2 AND (INTEGRATED()CIRCUIT?? OR ICS)
         1237
                S1:S2 AND IC
S24
                S1:S2 AND (ULSI OR VLSI OR INTEGRATED OR MONOLITH??????)
S25
        11233
                S1:S2 AND (RESIN??? OR PLASTIC??? OR POLYMER???? OR PHOTOPOLYMER???? OR COPOLYMER????? OR
          893
ELASTOMER ???? OR THERMOSET ???? OR THERMOPLASTIC ???) (2N) (LAYERS OR FILMS OR MULTILAYER? OR BILAYER? OR TRILAYER? OR
LAYERED OR LAYERING? OR SUNLAYER? OR OVERLAYER?)
          73 S1:S2 AND PARYLEN?
$27
                S1:S2 AND PHOTOPOLYMER?
S28
         . 119
                S1:S2 AND PHOTO()POLYMER???
S29
```

```
S1:S2 AND (PHOTOSENS? OR PHOTO) (1N) (POLYMER??? OR RESIST OR
           22
              RESISTS OR ORGANIC)
                S1:S2 AND CONFORM??????
S31
         2613
S32
         2107 -
                S1:S2 AND EDGES
                S1:S2 AND EDGE??
S33
         5726
                 S1:S2 AND MULTI
         4976
S34
S35
         9450
                 S1:S2 AND MULTIPLE
                 S1:S2 AND (RESIN??? OR PLASTIC??? OR POLYMER???? OR PHOTOPOLYMER???? OR COPOLYMER????? OR
         . 326
S36
ELASTOMER ?? ?? OR THERMOSET ?? ?? OR THERMOPLASTIC ??? OR ORGANIC ?? OR PHOTORESIST ?? (2N) (STACK ?? ??? OR SANDWICH ????? OR
LAMINA?????)
                 S1:S2 AND (THIN OR THINN?????? OR ULTRATHIN? OR SUPERTHIN? OR THICK????? OR REDUCED OR
s37
          999
RECESS?????) (2N) (DIE OR CHIP OR MICROCHIP OR SEMICONDUCT???? OR SUBSTRATE? ? OR COMPONENT? ?)
                S1:S2 AND (RESIN??? OR PLASTIC??? OR POLYMER???? OR PHOTOPOLYMER???? OR COPOLYMER????? OR
S38
            1
ELASTOMER ????? OR THERMOSET ???? OR THERMOPLASTIC ???) (2N) (SUBLAYER?)
                CONTACT () BUMPS
           64
S39
S40
           34
                 THINNED()DIE
                 POLYMER() LAYERS
         61.52
S41
                 SEMICONDUCT?????()COMPONENT
          460
S42
        67698
                 S5:S38
S43
S44
            0
                 39AND43
S45
            0
                 40AND43
                 41AND43
S46
           55
S47
            1
                 42AND43
                 S47 NOT S3
S48
            1
           . 55
                 S46 NOT (S47 OR S3)
S49
            0
                S49 AND S8:S9
S50
           55
                 S49 AND S16:S33
S51
           55
                 S49 AND S34:S42
S52
$53
           55
                 S51:S52
S54
           17
                 S53/2002-2006
                 S53 NOT S54
S55
           38
                 S55 AND (SEMICONDUCT????? OR THINN???? OR COMPONENT? ? OR CONTACT? ? OR BUMP??)
S56
           12
                 (POLYMER???? OR PARYLEN????? OR PHOTOPOLYMER????) (3N) (COVER????? OR ENCAPSUL????? OR COMPLETELY OR
        22300
S57
FULLY OR TOTALLY OR EDGES)
                 S55 NOT S56
           26
S58
            1
                 S57 AND S58
           25
                 S58 NOT S59
S60
                 S1 AND S5:S54
S61
           322
                 S1 AND S57
S62
          204
                 RD S61 (unique items)
563
           415
                 (6 OR SIX) () SURFACES
S64
                 RD S64 (unique items)
S65
          253
S66
           457
                 S63 OR S65
                 S66 NOT S3
S67
           455
                 S67 AND THINN??????
S68
            1
            22
                 S67 AND LAYERS
S69
                 S67 AND EDGES
$70
            14
             3
                 S67 AND ENCAPSUL??????
S71
                 S67 AND (POLYMER??? OR HOMOPOLYMER???? OR ENCAPSUL?????? OR PARYLEN????? OR PHOTOPOLYMER? OR
S72
            17
PHOTORESIST? ?)
                 $67 AND SEMICONDUCT???????
S73
            42
                 S67 AND (DIE OR DIES OR CHIP?????? OR MICROCHIP? ? OR CSP? ?)
S74
            17
                 S67 AND PACKAG??????
S75
            27
                 S68:S75
S76
           119
            81
                 S76 NOT S76/2002-2006
S77
                 69AND70
S78
            0
S79
             0
                 69AND72
S80
            10
                 69AND73
S81
             0
                 69AND74
                 69AND75
S82
             0
583
                 72AND73
S84
             3
                 72AND74
             1
                 72AND75
S85
S86
             1
                 73AND74
             2
S87
                 73AND75
                 S68 OR S71 OR S78:S87
S88
            18
                 S77 NOT S88
S89
            68
                 SIX()SIDES
590
           256
S91
           509
                 SIX()SIDED
           204
                 SIX()SURFACES
S92
                 (FULL OR FULLY OR COMPLETE OR COMPLETELY OR TOTAL OR TOTALLY OR ENTIRELY OR ENTIRE) (W) ENCAPSUL???????
S93
          1642
S94
            51
                 "ALL"()(6 OR SIX)(W)SIDES
                 "ALL"()(6 OR SIX)(W)SURFACES
S95
            18
S96
           962
                 S90:S92
                 93AND96
597
             n
S98
            69
                 S94:S95
```

```
RD S98
           42
                        (unique items)
599
s100
          120
                S90:S99 AND SEMICONDUCT??????
          100
                S90:S99 AND INTERCONNECT??????
S101
                S90:S99 AND (BUMPS OR BALLS OR BGA? ? OR CSP? ?)
S102
           14
                S90:S99 AND HERMETIC???????
S103
         1649
                S90:S99 AND ENCAPSUL???????
S104
S105
                S1:S2 AND HERMETIC??????? -
            9
                100AND101
S106
S107
          104
                100AND104
           71
                101AND104
S108
                S105 AND SEMICONDUCT???????
S109
           48
S110
           24
                S102:S103 OR S106
S111
           17
                RD S110 (unique items)
           14
                $90:$105 AND THINN??????
S112
            8
S113
                RD S112 (unique items)
S114
           20
                S90:S105 AND BUMPS
                S90:S105 AND LAYERS
          172
S115
                S114 AND S115
S116
            1
           38
                S114:S115 AND (CSP? ? OR CHIP? ? OR MICROCHIP? OR CHIPSCAL? OR CHIPLEVEL? OR WAFER??????)
S117
           37
                S117 NOT S116
S118
S119
           18
                RD S118 (unique items)
                AU=(GRIEVE, A? OR CAPOTE, M? OR CAPOTE, A? OR LENOS, H? OR SORIANO, A?)
S120
          284
                AU=(GRIEVE A? OR CAPOTE M? OR CAPOTE A? OR LENOS H? OR SORIANO A?)
S121
          691
          957
                S120:S121
S122
                S122/2000
S123
           31
                S122/2001
           41
S124
           41
                S122/2002
S125
            0
                S123:S125 AND THINN????????
S126
            0
                S123:S125 AND LAYERS
S127
S128
            2
                S123:S125 AND EDGE? ?
                S123:S125 AND ENCAPSUL?
S129
           14
                S123:S125 AND HERMETIC?
S130
            0
                S123:S125 AND SEAL????
S131
            1
                S123:S125 AND SURFACES
S132
                S123:S125 AND SIDES
            0
S133
S134
           17
                S128:S133
           10
                RD S134 (unique items)
S135
S136
          185
                AGUILA
          536
                CS=AGUILA?
S137
                PA=AGUILA?
S138
            2
                S136:S138 AND THINN???????
S139
            1
                S136:S138 AND ENCAPSULA??????
S140
           17
                S136:S138 AND SEAL?????
S141
                $136:$138 AND HERMETIC?????
S142
            1
S143
           20
                S139:S142
           14
                RD S143 (unique items)
S144
                S144 NOT S135
$145
           10
           25
                CR=CAPOTE MA?
S146
                S146/2000-2002
S147
            0
S148
           74
                AU=GILLEO K?
            0
                AU=GILLEO B?
S149
S150
            8
                AU=BLUMEL D?
S151
          245
                AU=MOUNTAIN D?
                AU=MCLENAGHAN J?
S152
            3
         3401
                AU=WAKABAYASHI T?
S153
                AU=WAKABAYASHI, T?
          978
S154
                 AU≃MCLENAGHAN, J?
S155
           14
                AU=MOUNTAIN, D?
          225
S156
S157
           19
                AU=BLUMEL, D?
S158
            0
                AU=GILLEO, B?
          295
                AU=GILLEO, K?
S159
S160
         5079
                 $148:S159
                S160/2001
S161
          252
S162
          217
                 S160/2002
                 S160/2000
S163
          233
S164
           338
                 s160/1999
                 S160/1998
S165
          286
S166
          356
                 S160/1997
S167
          1682
                 S161:S166
S168
            8
                 S167 AND THINN?????
           .39
S169
                 S167 AND ENCAPSULA?????
                 S167 AND BUMPS
S170
            1
S171
            9
                 S167 AND HERMETIC??????
           57
                 S168:S171
S172
S173
           34
                 RD S172
                          (unique items)
                 $173 AND (SEMICONDUCT????? OR CHIP?????? OR CSP? ? OR WAFER?????? OR DICE?? OR DIE OR DIES OR DICING??
S174
```

L1	FILE	'REGISTRY' ENTERED AT 12:06:38 ON 31 MAY 2006 13 SEA ABB=ON PLU=ON PARYLEN?
L4		'HCAPLUS' ENTERED AT 12:06:44 ON 31 MAY 2006 2227 SEA ABB=ON PLU=ON L1 OR PARYLEN? 2228 SEA ABB=ON PLU=ON L2 OR ?PARYLEN? 21 SEA ABB=ON PLU=ON L3 AND THINN? 93 SEA ABB=ON PLU=ON L3 AND ENCAPSUL? 157 SEA ABB=ON PLU=ON L3 AND (MULTILAYER? OR MULTI LAYER? OR ?LAYERED OR ?LAYERING OR BILAYER? OR TRILAYER? OR (BI OR TRI) (W) LAYER?)
		23 SEA ABB=ON PLU=ON L3 AND (TWO OR DOUBLE)(2W)?LAYER? 257 SEA ABB=ON PLU=ON (L5 OR L6 OR L7) 5 SEA ABB=ON PLU=ON L4 AND L8 D ALL HITSTR TOT
	FILE	'STNGUIDE' ENTERED AT 12:09:04 ON 31 MAY 2006
L10	•	'HCAPLUS' ENTERED AT 12:10:22 ON 31 MAY 2006 0 SEA ABB=ON PLU=ON L3 AND PREENCAP?
L11	FILE	'HCAPLUS' ENTERED AT 12:10:26 ON 31 MAY 2006 0 SEA ABB=ON PLU=ON L3 AND PRE ENCAP? 206 SEA ABB=ON PLU=ON L3 AND (CSP OR CHIP OR MICROCHIP? OR WAFER? OR CHIP#### OR SINGULAT? OR DIE OR DICE### OR DICING)
L12		206 SEA ABB=ON PLU=ON L3 AND (CSP OR CHIP OR MICROCHIP? OR WAFER? OR CHIP##### OR SINGULAT? OR DIE OR DICE#### OR DICING)
$\mathbf{L}\mathbf{L}\mathbf{J}$		JY DEA ADD ON THE ON THE ON THE THE
L14		36 SEA ABB=ON PLU=ON L13 NOT L9
L15		21 SEA ABB=ON PLU=ON L14 AND (?CONNECT? OR ?CONTACT? OR BGA OR ?TERMINAL? OR BALL OR BOND#### OR ARRAY? OR PAD OR BONDPAD?)
L16		6 SEA ABB=ON PLU=ON L14 AND (HERMETIC? OR COMPLETE? OR ENTIRE? OR FULLY OR TOTAL##) 5 SEA ABB=ON PLU=ON L14 AND (SIDES OR SURFACES) 24 SEA ABB=ON PLU=ON (L15 OR L16 OR L17)
L17		5 SEA ABB=ON PLU=ON L14 AND (SIDES OR SURFACES)
L18		24 SEA ABB=ON PLU=ON (L15 OR L16 OR L17) D ALL HITSTR TOT

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CAS/STN FILE 'WPIX' ENTERED AT 16:38:07 ON 30 MAY 2006
               5 SEA ABB=ON PLU=ON (US6717245 OR US6607970 OR US6013534 OR US6620731 OR US6228678)/PN
L1
                 SEL PLU=ON L1 1- PN : 20 TERMS
L2
     FILE 'DPCI' ENTERED AT 16:38:26 ON 30 MAY 2006
              82 SEA ABB=ON PLU=ON L2/PN.D
L3
                 SEL PLU=ON L3 1- PRN : 120 TERMS
L4
     FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 16:39:02 ON 30 MAY 2006
             221 SEA ABB=ON PLU=ON L4
L5
              26 SEA ABB=ON PLU=ON L5 AND ?THINN?
L6
               1 SEA ABB=ON PLU=ON L5 AND ULTRATHIN?
L7
               O SEA ABB=ON PLU=ON L5 AND MICROTHIN?
L8
              36 SEA ABB=ON PLU=ON L5 AND THIN
L9
              1 SEA ABB=ON PLU=ON L5 AND TOTAL#####
L10
              3 SEA ABB=ON PLU=ON L5 AND FULL####
L11
              7 SEA ABB=ON PLU=ON L5 AND COMPLET####
L12
            18 SEA ABB=ON PLU=ON L5 AND EDGES
L13
            20 SEA ABB=ON PLU=ON L5 AND EDG###
L14
            80 SEA ABB=ON PLU=ON L5 AND (?POLYMER? OR ?PARYLEN?)
L15
            9 SEA ABB=ON PLU=ON L5 AND SIDES
27 SEA ABB=ON PLU=ON L5 AND SURFACES
47 SEA ABB=ON PLU=ON L5 AND (6 OR SIX OR SIXTH OR 6TH)
179 SEA ABB=ON PLU=ON L5 AND (DIE OR DICE OR SINGULAT? OR ?WAFER? OR ?CHIP? OR CSP OR WSP)
13 SEA ABB=ON PLU=ON L5 AND (DICED OR DICING)
25 SEA ABB=ON PLU=ON L5 AND (?ENCAPSUL?)
L16 .
L17
L18
L19
'L20
L21
            124 SEA ABB=ON PLU=ON L5 AND (CONTACTS OR TERMINALS OR BALLS OR BUMPS OR PILLARS OR PADS)
L22
             22 SEA ABB=ON PLU=ON L5 AND (BURN#### OR TEST##### OR INSPECT#####)
L23
             51 SEA ABB=ON PLU=ON (L6 OR L7 OR L8 OR L9)
L24
             47 SEA ABB=ON PLU=ON (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR L19
L25
OR L20 OR L21 OR L22 OR L23) AND L24
             44 SEA ABB=ON PLU=ON L18 AND (L19 OR L20 OR L21 OR L22 OR L23)
L26
              34 SEA ABB=ON PLU=ON. L18 AND (L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR
L15 OR L16 OR L17)
             21 SEA ABB=ON PLU=ON L25 AND L26
L28
              21 SEA ABB=ON PLU=ON L25 AND L27
32 SEA ABB=ON PLU=ON L26 AND L27
44 SEA ABB=ON PLU=ON L28 OR L29 OR L30 OR L6
28 SEA ABB=ON PLU=ON L31 AND PRY>2001
L29
L30
L31
L32
              20 SEA ABB=ON PLU=ON L31 AND (2000 OR 2001 OR 1999 OR 1998 OR 1997 OR 1996 OR 1995 OR 1994
L33
OR 1993)/PRY
              16 SEA ABB=ON PLU=ON L31 NOT L32
L34
              20 SEA ABB=ON PLU=ON L33 OR L34
L35
                 SEL PLU=ON L35 1- IC RN :
                                                    38 TERMS
L36
          958559 SEA ABB=ON PLU=ON L36
L37
              20 SEA ABB=ON PLU=ON L35 AND L37
L38
     FILE 'STNGUIDE' ENTERED AT 16:50:53 ON 30 MAY 2006
     FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 16:51:59 ON 30 MAY 2006
              36 SEA ABB=ON PLU=ON L18 NOT L38
28 SEA ABB=ON PLU=ON L39 AND PRY>2001
L39
L40
               8 SEA ABB=ON PLU=ON L39 NOT L40
L41
                 SEL PLU=ON L41 1- IC RN :
                                                41 TERMS
L42
          565374 SEA ABB=ON PLU=ON L42
L43
               8 SEA ABB=ON PLU=ON L41 AND L43
L44
     FILE 'STNGUIDE' ENTERED AT 16:53:59 ON 30 MAY 2006
      FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 16:55:09 ON 30 MAY 2006
             193 SEA ABB=ON PLU=ON L5 NOT (L35 OR L44)
              93 SEA ABB=ON PLU=ON L45 AND 2001/PRY, PY
L46
              49 SEA ABB=ON PLU=ON L45 AND 2000/PRY, PY
L47
             113 SEA ABB=ON PLU=ON L46 OR L47
L48
             10 SEA ABB=ON PLU=ON L48 AND ?ENCAPSUL?
L49
              9 SEA ABB=ON PLU=ON L48 AND ?EDGE?
L50
```

19 SEA ABB=ON PLU=ON L49 OR L50

L51